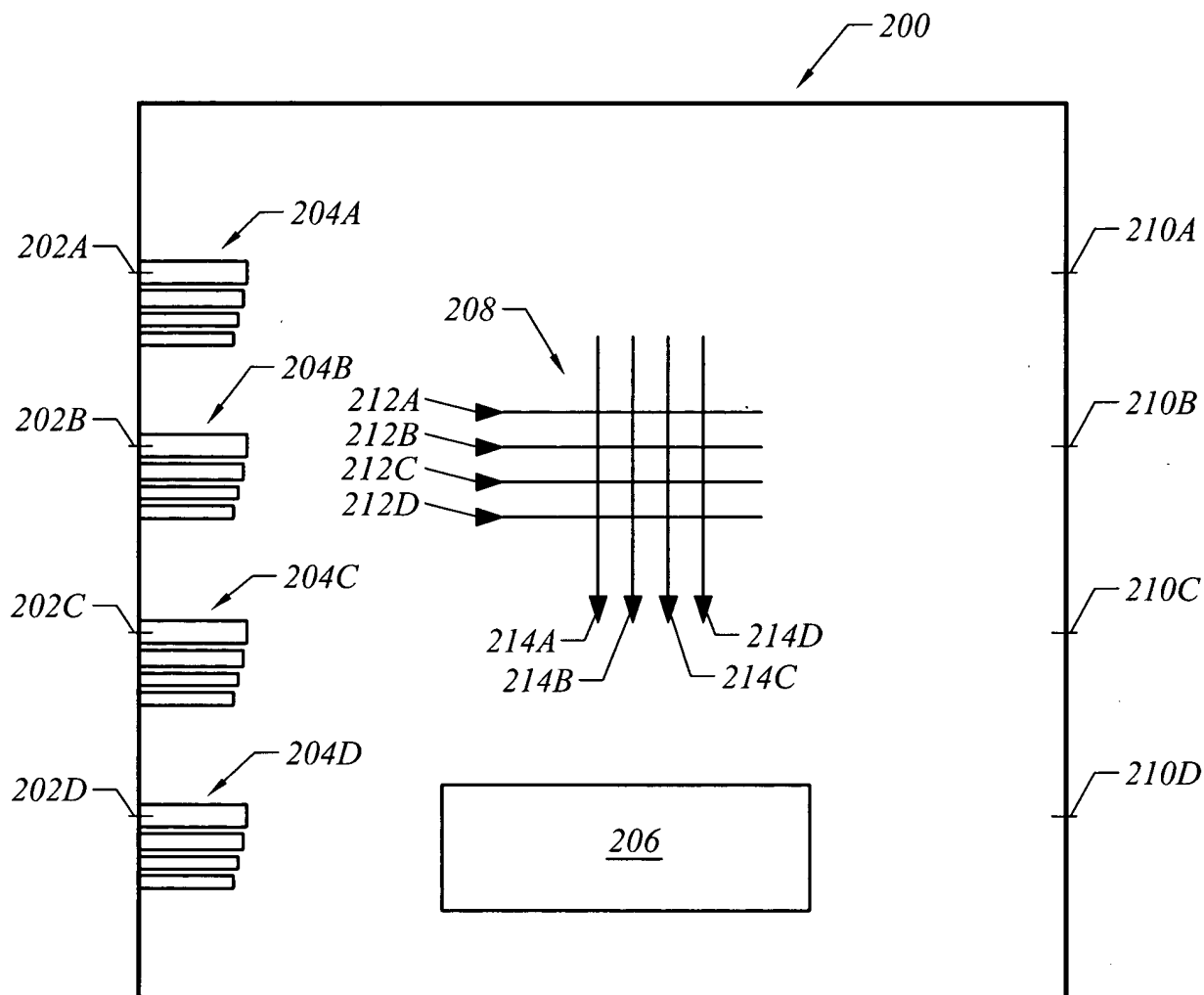


**FIG. 1**  
 (Prior Art)



**FIG. 2**  
(Prior Art)

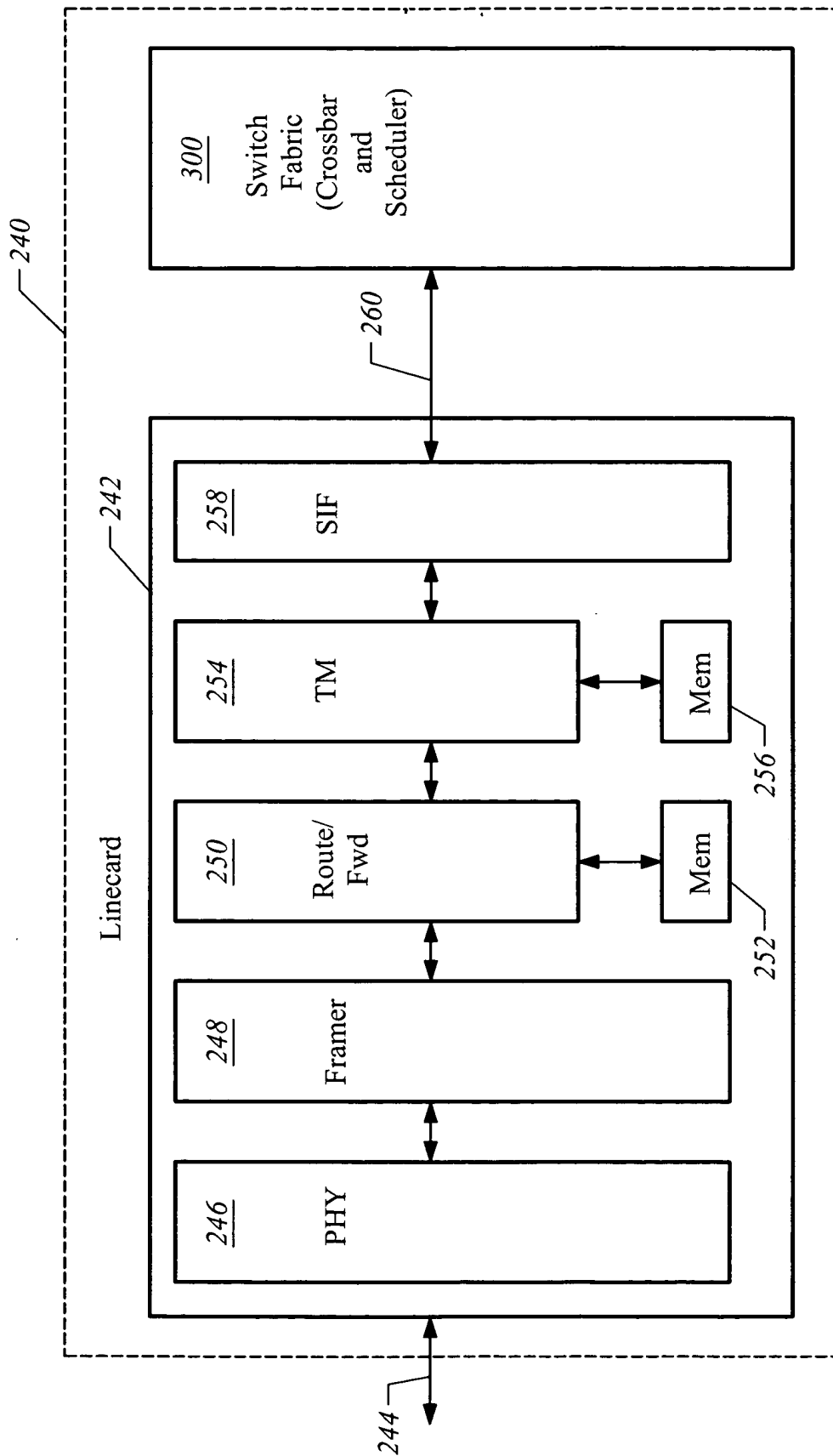


FIG. 3

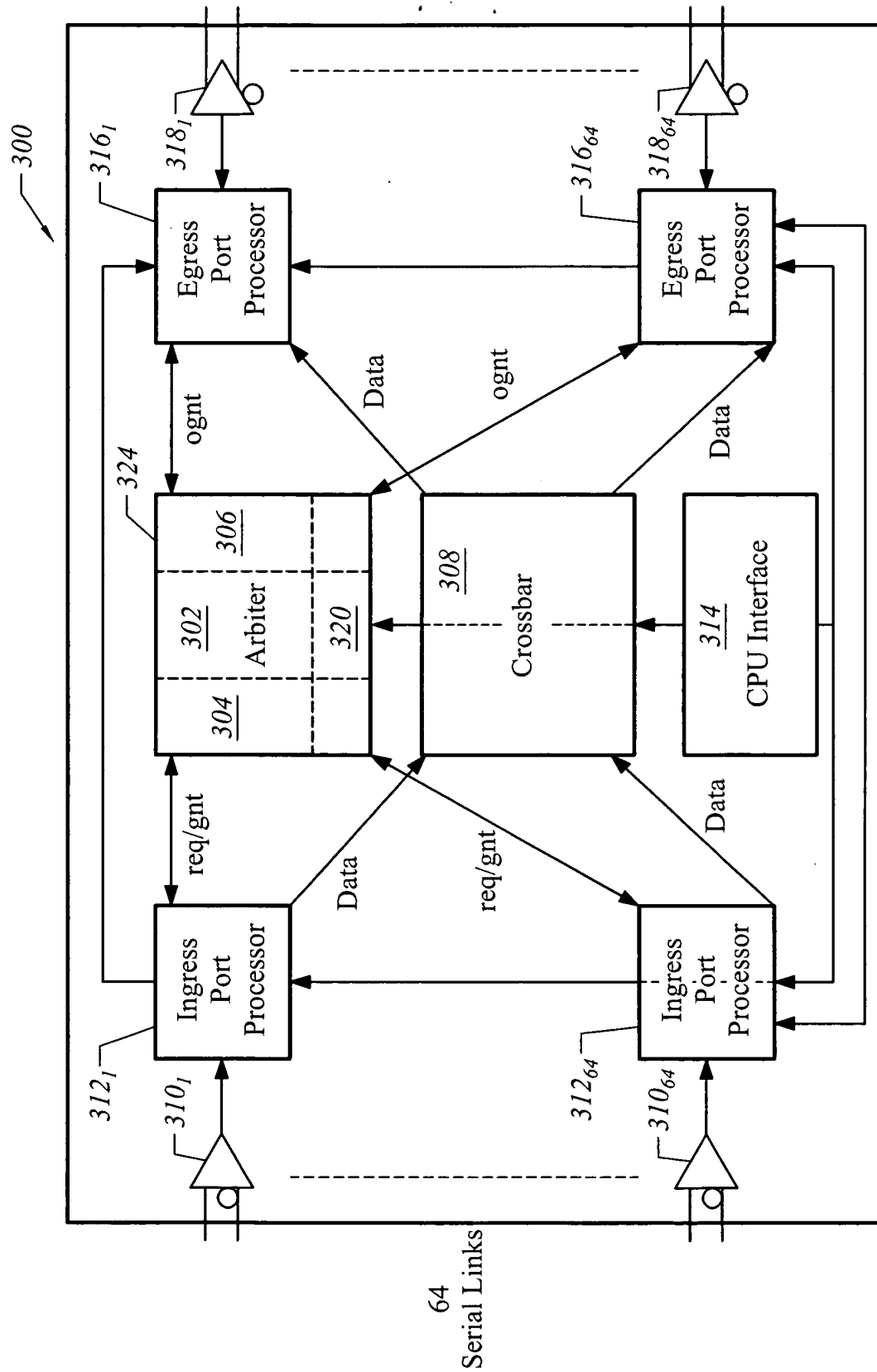
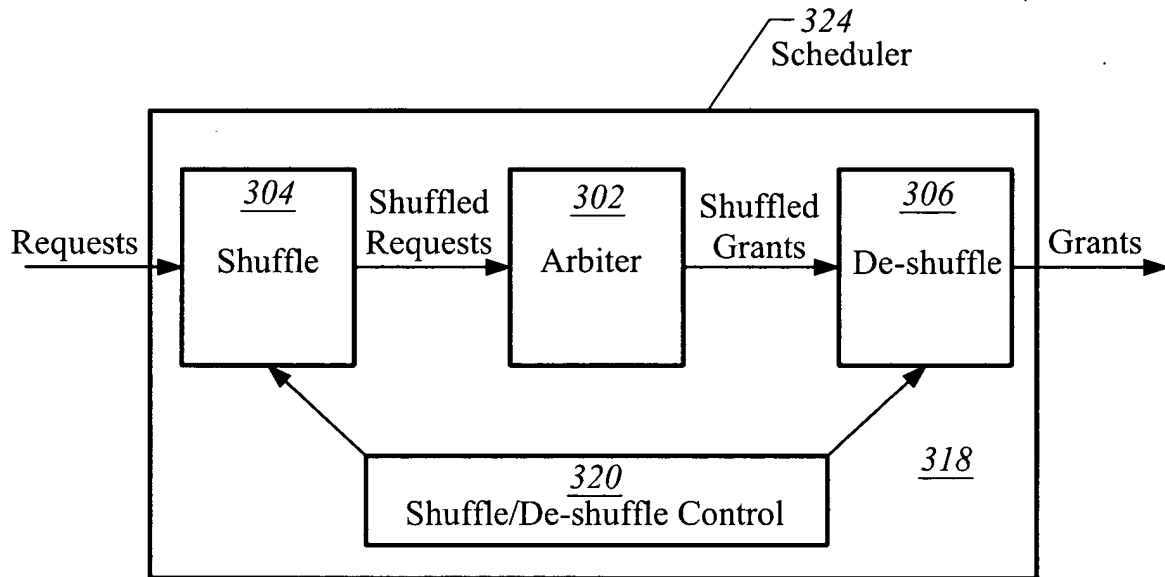


FIG. 4



*FIG. 5*

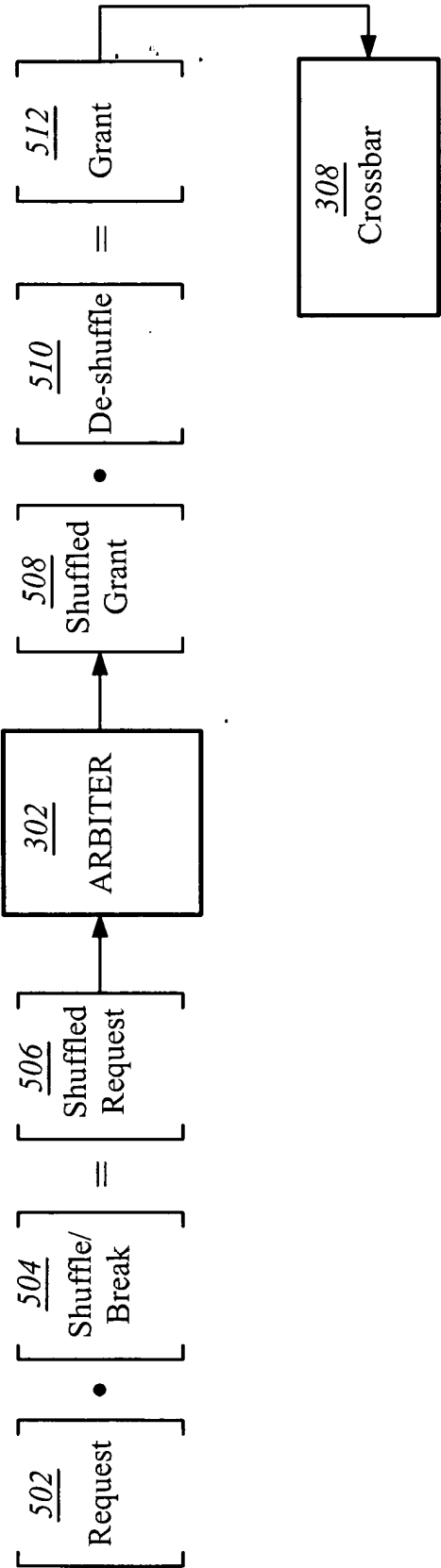


FIG. 6

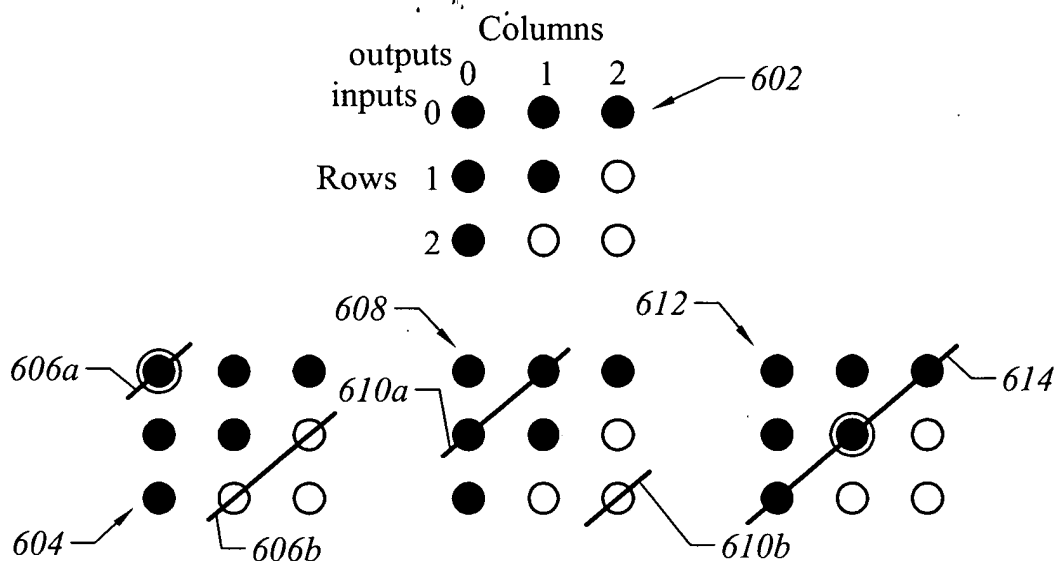


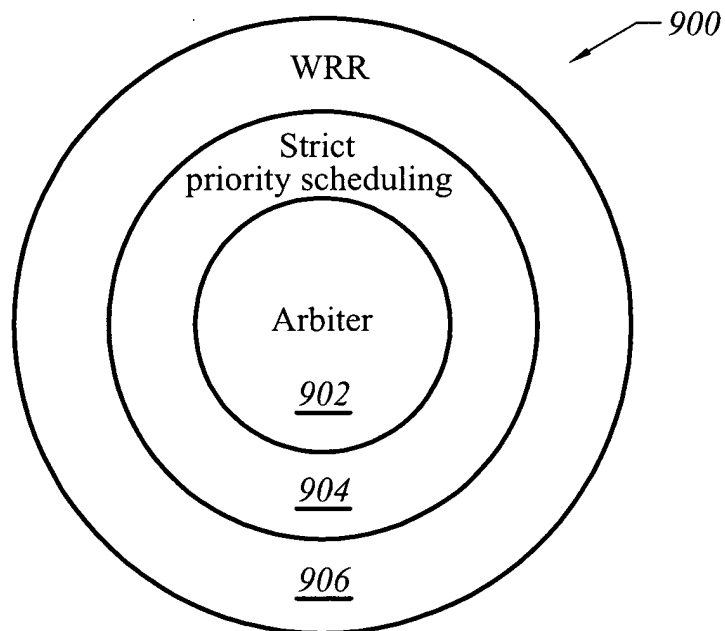
FIG. 7

Row or Col Position	0 1 2	0 1 2	0 1 2	0 1 2
Calculated Shuffle Control	1 2 0	0 2 1	2 1 0	1 0 2
Row Shuffle	1 2 0	0 2 1	2 1 0	1 0 2
Col Shuffle	1 2 0	1 2 0	2 1 0	2 0 1
Cell Time	0	1	2	3

FIG. 8

Row or Col Position	0 1 2	0 1 2	0 1 2	0 1 2
Calculated Shuffle Control	1 2 0	0 2 1	2 1 0	1 0 2
Row Shuffle	1 2 0	1 2 0	2 1 0	2 0 1
Col Shuffle	1 2 0	0 2 1	2 1 0	1 0 2
Cell Time	0	1	2	3

*FIG. 9*



*FIG. 10*





FIG. 12

Cell Time	0	1	2	3	4	5	6	7	7'	8
Credits 0 $\rightarrow$ 0	2	2	2	2	2	2	2	1	0	2
Credits 1 $\rightarrow$ 0	3	2	2	1	1	0	0	0	0	3
Credits 2 $\rightarrow$ 0	1	1	0	0	0	0	0	0	0	1
Grants	1 $\rightarrow$ 0	2 $\rightarrow$ 0	1 $\rightarrow$ 0	2 $\rightarrow$ 0	1 $\rightarrow$ 0	2 $\rightarrow$ 0	0 $\rightarrow$ 0	0 $\rightarrow$ 0	$\blacktriangleright$	1 $\rightarrow$ 0

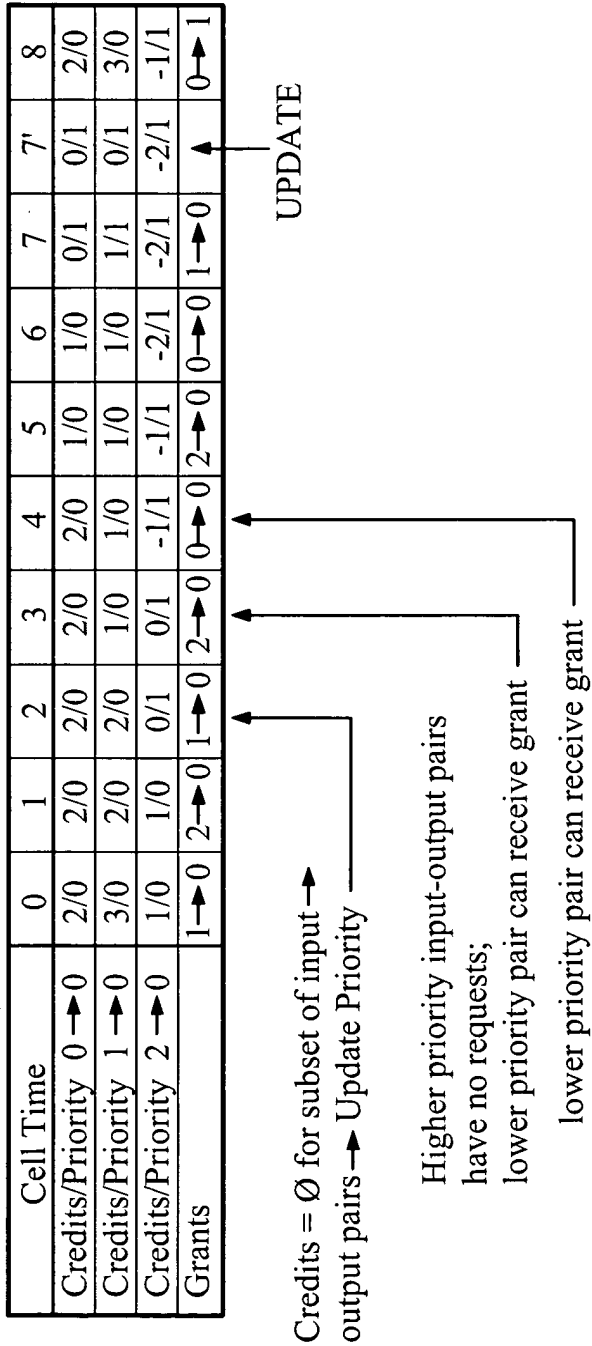


FIG. 14

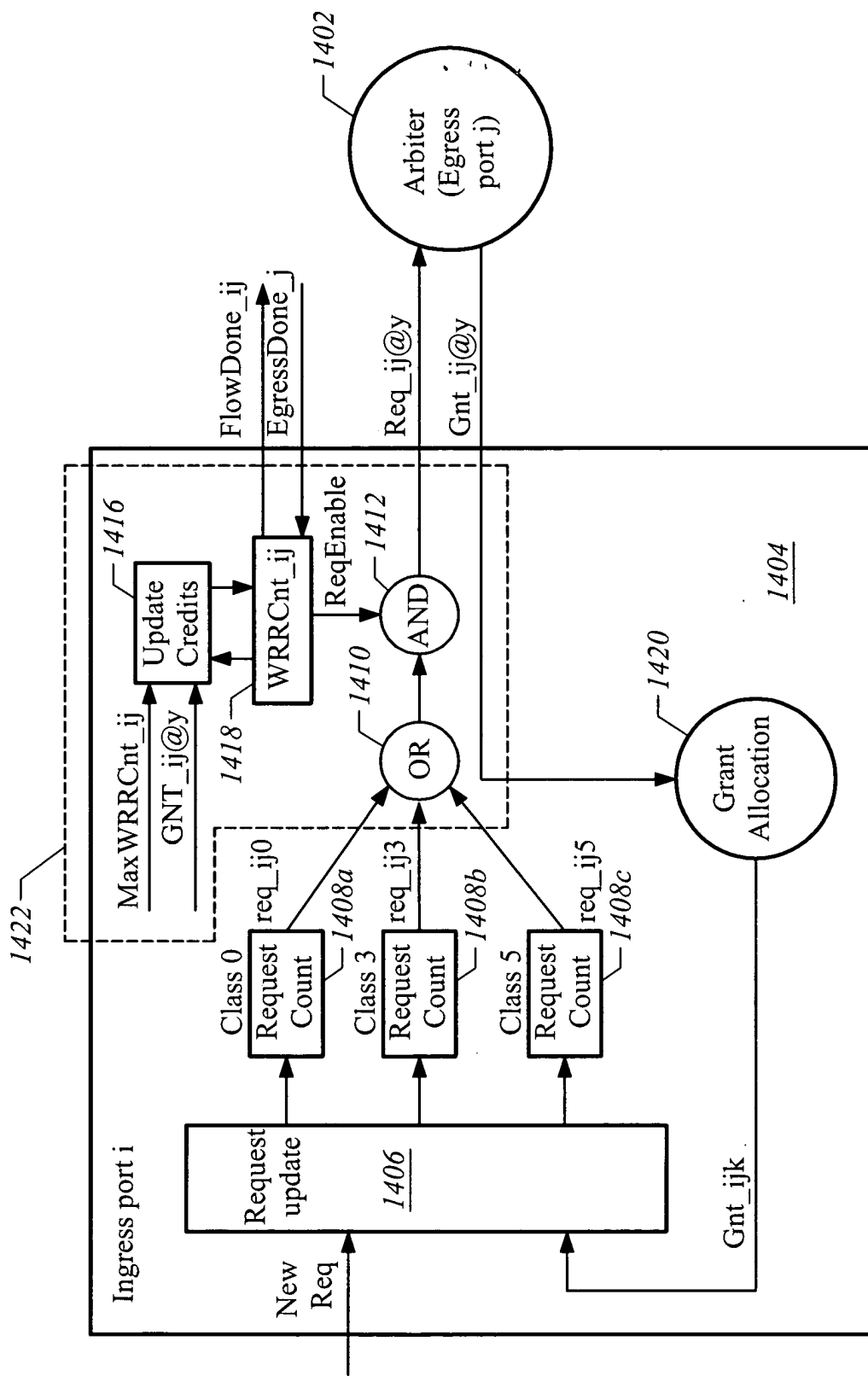


FIG. 15

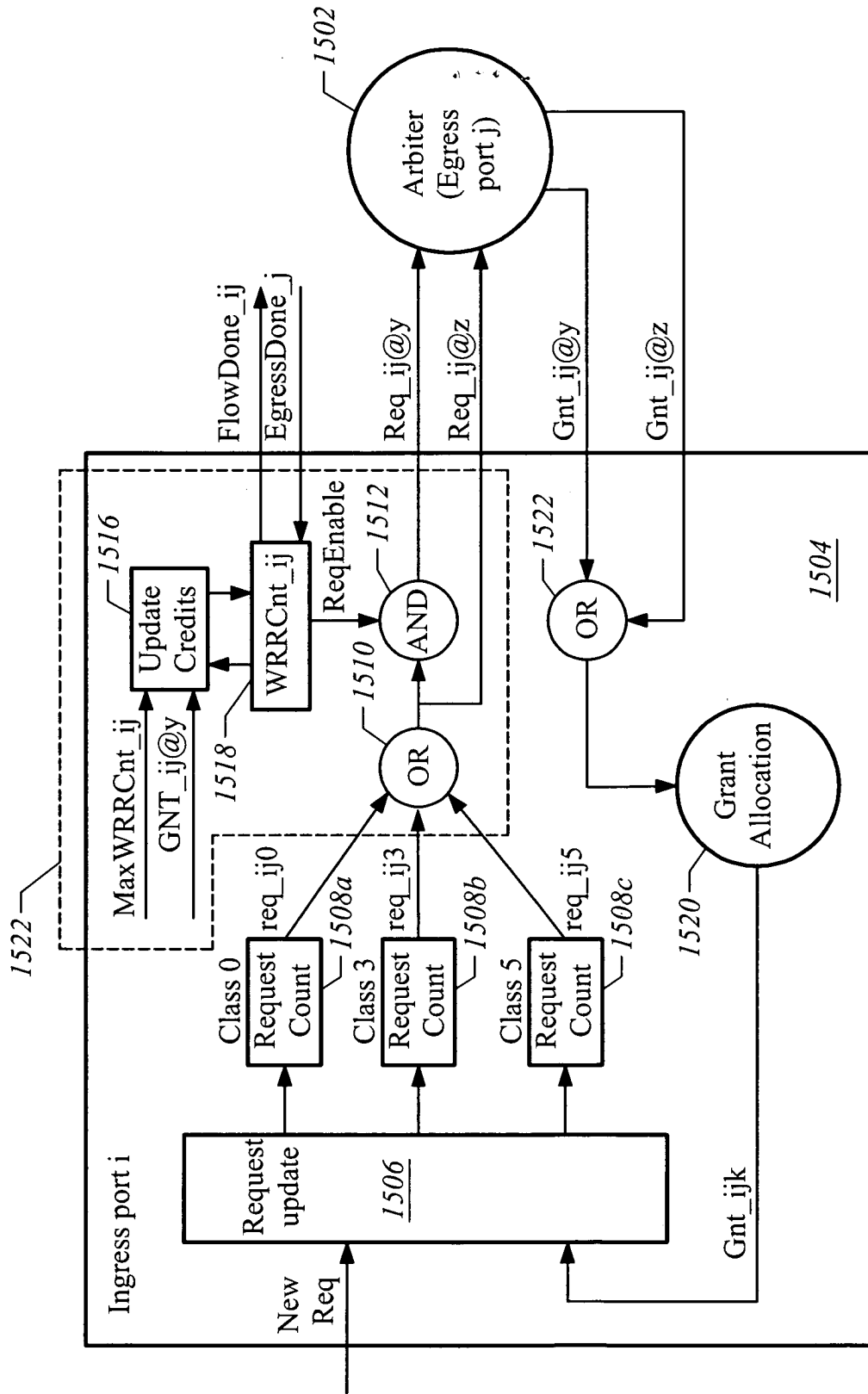


FIG. 16